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1 Overlays: Peer-to-peer information retrieval using self-organizing semantic overlay networks
Chunqiang Tang, Zhichen Xu, Sandhya Dwarkadas
August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**
Publisher: ACM Press
Full text available: pdf(278.25 KB) Additional Information: full citation, abstract, references, citings, index terms

Content-based full-text search is a challenging problem in Peer-to-Peer (P2P) systems. Traditional approaches have either been centralized or use flooding to ensure accuracy of the results returned.In this paper, we present pSearch, a decentralized non-flooding P2P information retrieval system. pSearch distributes document indices through the P2P network based on document semantics generated by Latent Semantic Indexing (LSI). The search cost (in terms of different nodes searched and data transmi ...

Keywords: information retrieval, overlay network, peer-to-peer system

2 A self-organizing semantic map for information retrieval
Xia Lin, Dagobert Soergel, Gary Marchionini
September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(797.66 KB) Additional Information: full citation, references, citings, index terms

3 Distributed semantic query: Remindin': semantic query routing in peer-to-peer networks based on social metaphors
Christoph Tempich, Steffen Staab, Adrian Wranik
May 2004 **Proceedings of the 13th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(348.43 KB) Additional Information: full citation, abstract, references, index terms

In peer-to-peer networks, finding the appropriate answer for an information request, such as the answer to a query for RDF(S) data, depends on selecting the right peer in the network. We hereinvestigate how social metaphors can be exploited effectively

andefficiently to solve this task. To this end, we define a method for query routing, REMINDIN', that lets (i) peers observewhich queries are successfully answered by other peers,(ii), memorizes this obser ...

Keywords: ontologies, peer selection, peer-to-peer, query routing

4 Dimensionality reduction: On scaling latent semantic indexing for large peer-to-peer systems

Chunqiang Tang, Sandhya Dwarkadas, Zhichen Xu

July 2004 **Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04**

Publisher: ACM Press

Full text available: pdf(208.57 KB) Additional Information: full citation, abstract, references, index terms

The exponential growth of data demands scalable infrastructures capable of indexing and searching rich content such as text, music, and images. A promising direction is to combine information re-trieval with peer-to-peer technology for scalability, fault-tolerance, and low administration cost. One pioneering work along this di-rection is pSearch [32, 33]. pSearch places documents onto a peer-to- peer overlay network according to semantic vectors produced using Latent Semantic Indexing (LSI). The ...

Keywords: dimensionality reduction, latent semantic indexing, peer-to-peer IR

5 Exploration of text collections with hierarchical feature maps

Dieter Merkl

July 1997 **ACM SIGIR Forum , Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '97**, Volume 31 Issue SI

Publisher: ACM Press

Full text available: pdf(1.65 MB) Additional Information: full citation, references, citings, index terms

6 The exploration of legal text corpora with hierarchical neural networks: a guided tour in public international law

Dieter Merkl, Erich Schweighofer

June 1997 **Proceedings of the 6th international conference on Artificial intelligence and law**

Publisher: ACM Press

Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings, index terms

7 Research articles and surveys: Peer-to-peer management of XML data: issues and research challenges

Georgia Koloniari, Evaggelia Pitoura

June 2005 **ACM SIGMOD Record**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(301.94 KB) Additional Information: full citation, abstract, references

Peer-to-peer (p2p) systems are attracting increasing attention as an efficient means of sharing data among large, diverse and dynamic sets of users. The widespread use of XML as a standard for representing and exchanging data in the Internet suggests using XML for describing data shared in a p2p system. However, sharing XML data imposes new

challenges in p2p systems related to supporting advanced querying beyond simple keyword-based retrieval. In this paper, we focus on data management issues fo ...

8 Special section: Special issue on AI and Database research

Jonathan J. King
October 1983 **ACM SIGART Bulletin**, Issue 86
Publisher: ACM Press
Full text available: pdf(3.84 MB) Additional Information: full citation, abstract

This collection of research summaries spans a very wide range of interests under the general heading of AI and Database research. In this introduction, I briefly describe the leading areas of interest that emerge from the reports submitted for this issue.

9 Selforganizing classification on the Reuters news corpus

Stefan Wermter, Chihli Hung
August 2002 **Proceedings of the 19th international conference on Computational linguistics - Volume 1**
Publisher: Association for Computational Linguistics
Full text available: pdf(89.04 KB) Additional Information: full citation, abstract, references

In this paper we propose an integration of a selforganizing map and semantic networks from WordNet for a text classification task using the new Reuters news corpus. This neural model is based on significance vectors and benefits from the presentation of document clusters. The Hypernym relation in WordNet supplements the neural model in classification. We also analyse the relationships of news headlines and their contents of the new Reuters corpus by a series of experiments. This hybrid approach ...

10 Automatic determination and visualization of relationships among symptoms for building medical knowledge bases

Gwang S. Jung, Venkat N. Gudivada
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(656.12 KB) Additional Information: full citation, references, index terms

Keywords: artificial neural networks, knowledge acquisition, medical knowledge base, personal construct theory

11 Hypertext-like structures through a SOM network

R. Rizzo, M. Allegra, G. Fulantelli
February 1999 **Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots**
Publisher: ACM Press
Full text available: pdf(577.22 KB) Additional Information: full citation, references, citings, index terms

Keywords: artificial neural networks, hypertext development

12 Ad Hoc, self-supervising peer-to-peer search networks

Brian F. Cooper, Hector Garcia-Molina
April 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 2

Publisher: ACM Press
Full text available: pdf(482.31 KB) Additional Information: full citation, abstract, references, index terms

Peer-to-peer search networks are a popular and widely deployed means of searching massively distributed digital information repositories. Unfortunately, as such networks grow, peers may become overloaded processing messages from other peers. This article examines how to reduce the load on nodes in P2P networks by allowing them to self-organize into a relatively efficient network, and then self-tune to make the network even more efficient. Two local operations used by a peer are introduced: **co ...**

Keywords: Peer-to-peer systems, information search and discovery

13 A learning technique for legal document analysis
Erich Schweighofer, Dieter Merkl
June 1999 **Proceedings of the 7th international conference on Artificial intelligence and law**
Publisher: ACM Press
Full text available: pdf(1.00 MB) Additional Information: full citation, abstract, references, citings, index terms

More and more law is available freely on the Internet. The growing complexity of legal rules and the necessary adaptation to user needs requires better instruments than manual browsing and searching interfaces of the past. Information reconnaissance of an unknown text corpus would provide a major help. Our research on neural networks concerns adaptive learning techniques for information reconnaissance in legal document archives. Self-organising maps offer besides successful classification a ...

14 Paper session DB-8 (databases): query optimisation: Query workload-aware overlay construction using histograms
Georgia Koloniari, Yannis Petrakis, Evaggelia Pitoura, Thodoris Tsotsos
October 2005 **Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05**
Publisher: ACM Press
Full text available: pdf(238.28 KB) Additional Information: full citation, abstract, references, index terms

Peer-to-peer(p2p) systems over an efficient means of data sharing among a dynamically changing set of a large number of a tonomous nodes.Each node in a p2p system is connected with a small number of other nodes thus creating an overlay network of nodes. A query posed at a node is routed through the overlay network towards nodes hosting data items that satisfy it. In this paper, we consider building overlays that exploit the query workload so that nodes are clustered based on their results to a g ...

Keywords: clustering, overlay network, peer-to-peer systems, query routing, range queries, small worlds

15 Visualizing content based relations in texts
Edgar Weippl
January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface AUIC '01**, Volume 23 Issue 5
Publisher: IEEE Computer Society , IEEE Computer Society Press
Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references
Publisher Site

Our goal is to efficiently visualize a medium sized hypertext database containing 500 - 20000 articles. The visualization technique we propose is an Information Landscape.

Basically, the information landscape maps texts into a 2D plane so that related texts are placed next to each other. The hypertexts' location is calculated according to their content and not according to their links. Combining already published algorithms the clustering works very well. An important issue, however, is a well-d ...

Keywords: UIs/visualization for hypertext search and navigation, information visualization for IR, stemming/morphological analysis, text categorization, text clustering

16 A modular approach for exploring the semantic structure of technical document collections

Andreas Becks, Stefan Sklorz, Matthias Jarke
May 2000 **Proceedings of the working conference on Advanced visual interfaces**
Publisher: ACM Press

Full text available: pdf(712.88 KB) Additional Information: full citation, abstract, references, citings, index terms

The identification and analysis of an enterprise's knowledge available in a documented form is a key element of knowledge management. Visual methods which allow easy access to a document collection's contents are an enabling technology. However, no single information retrieval technique is likely to adequately deal with such tasks independent of the specific situation. In this paper, we therefore present a visualization technique based on a modular approach that allows a variety of techniqu ...

Keywords: document management and retrieval, knowledge management

17 A Web text mining approach based on self-organizing map

Chung-Hong Lee, Hsin-Chang Yang
November 1999 **Proceedings of the 2nd international workshop on Web information and data management**
Publisher: ACM Press

Full text available: pdf(435.06 KB) Additional Information: full citation, abstract, references, citings, index terms

Web text mining is a new issue in the knowledge discovery research field. It is aimed to help people discover knowledge from large quantities of semi-structured or unstructured text in the web. Several approaches, including some pure and hybrid information retrieval (IR) methods, have been proposed to tackle such an issue. Among these approaches, combining the Self-Organizing Map (SOM) method with the principles of the vectorspace model, appears to be a promising alternativ ...

Keywords: document clustering, self-organizing map, text data mining

18 Software engineering: applications, practices and tools (SE): Organizing and visualizing software repositories using the growing hierarchical self-organizing map

Songsri Tangsripairoj, M. H. Samadzadeh
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing**
Publisher: ACM Press

Full text available: pdf(109.35 KB) Additional Information: full citation, abstract, references, index terms

A software repository, a place where reusable components are stored and searched for, is a key ingredient for instituting and popularizing software reuse. It is vital that a software repository should be well-organized and provide efficient tools for developers to locate reusable components that meet their requirements. The growing hierarchical self-organizing map (GHSOM), an unsupervised learning neural network, is a powerful data

mining technique for the clustering and visualization of large a ...

Keywords: growing hierarchical self-organizing map, self-organizing map, software repository, software reuse

19 Posters: Image classification using hybrid neural networks



Chih-Fong Tsai, Ken McGarry, John Tait

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval**

Publisher: ACM Press

Full text available: pdf(199.31 KB) Additional Information: full citation, abstract, references, index terms

Use of semantic content is one of the major issues which needs to be addressed for improving image retrieval effectiveness. We present a new approach to classify images based on the combination of image processing techniques and hybrid neural networks. Multiple keywords are assigned to an image to represent its main contents, i.e. semantic content. Images are divided into a number of regions and colour and texture features are extracted. The first classifier, a self-organising map (SOM) clusters ...

Keywords: content-based image retrieval, image indexing/classification, neural networks

20 Clustering: Extracting meaningful labels for WEBSOM text archives



Arnulfo P. Azcarraga, Teddy N. Yap

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(1.72 MB) Additional Information: full citation, abstract, references, index terms

Self-Organizing Maps, being used mainly with data that are not pre-labeled, need automatic procedures for extracting keywords as labels for each of the map units. The WEBSOM methodology for building very large text archives has a very slow method for extracting such unit labels. It computes the relative frequencies of all the words of all the documents associated to each unit and then compares these to the relative frequencies of all the words of all the other units of the map. Since maps may ha ...

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1 JLINK—Janus fast movers
William J. Caldwell, Ralph Wood, Maria C. Pate
December 1995 **Proceedings of the 27th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(637.27 KB) Additional Information: full citation, references, index terms

2 A hybrid approach to representation in the Janus natural language processor
Ralph M. Weischedel
June 1989 **Proceedings of the 27th annual meeting on Association for Computational Linguistics**
Publisher: Association for Computational Linguistics
Full text available: pdf(902.97 KB) Publisher Site Additional Information: full citation, abstract, references, citings

In BBN's natural language understanding and generation system (Janus), we have used a hybrid approach to representation, employing an intensional logic for the representation of the semantics of utterances and a taxonomic language with formal semantics for specification of descriptive constants and axioms relating them. Remarkably, 99.9% of 7,000 vocabulary items in our natural language applications could be adequately axiomatized in the taxonomic language.

3 Military applications: Hierarchy-of-models approach for aggregated-force attrition
James G. Taylor, Ugur Ziya Yildirim, William S. Murphy
December 2000 **Proceedings of the 32nd conference on Winter simulation**
Publisher: Society for Computer Simulation International
Full text available: pdf(938.24 KB) Additional Information: full citation, abstract, references

This paper presents some innovations for overcoming shortcomings in the current state-of-the-art for the hierarchy-of-models approach to modeling aggregated-force attrition in ground-combat models. The basic concept of such an approach for modeling large-scale system behavior is presented, together with the theoretical underpinnings for modeling attrition in large-scale ground combat. The output of an entity-level discrete-event combat simulation is fit to a Lanchester-type aggregated-replay mod ...

4 Constructive and virtual model linkage

David R. Pratt, Matthew A. Johnson
December 1995 **Proceedings of the 27th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(644.81 KB) Additional Information: full citation, references, index terms

5 Janus: A data management and analysis system for the behavioral sciences
Jeffrey P. Stamen, Robert M. Wallace
August 1973 **Proceedings of the annual conference**
Publisher: ACM Press
Full text available: pdf(828.85 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the Janus data management and analysis system which has been designed at the Cambridge Project. A prototype of Janus is currently running on the Multics time-sharing system at M.I.T. The data model for the design of Janus is very general and should be usable as a model for data handling in general, as well as for Janus in particular. The Janus command language is an English-like language based on procedural functions - such as define, display, and delete - which act on ...

Keywords: Attributes, Data analysis, Data management, Datasets, Entities, Modeling, Relations, Social and behavioral science

6 The state of the art in distributed query processing
Donald Kossmann
December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4
Publisher: ACM Press
Full text available: pdf(455.39 KB) Additional Information: full citation, abstract, references, citings, index terms

Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and they often must do it in order to stay competitive. While much of the infrastructure for distributed data processing is already there (e.g., modern network technology), a number of issues make distributed data processing still a complex undertaking: (1) distributed systems can become very large, involving thousands of heterogeneous sites including PCs and mainframe server machines; (2) the stat ...

Keywords: caching, client-server databases, database application systems, dissemination-based information systems, economic models for query processing, middleware, multitier architectures, query execution, query optimization, replication, wrappers

7 Army National Guard Using Linux
Richard Ridgeway
December 1999 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(12.40 KB) Additional Information: full citation, abstract, index terms

The Army migrates a war game tool from Hewlett Packard 700 series workstations using HP-UX to Intel-based Linux workstations

8 Abstract interpretation and low-level code optimization
Saumya Debray
June 1995 **Proceedings of the 1995 ACM SIGPLAN symposium on Partial evaluation**

and semantics-based program manipulation
Publisher: ACM Press
Full text available: pdf(1.23 MB) Additional Information: full citation, references, index terms

9 Launching the new era
Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama, Evan Tick
March 1993 **Communications of the ACM**, Volume 36 Issue 3
Publisher: ACM Press
Full text available: pdf(3.45 MB) Additional Information: full citation, references, index terms, review

10 Actors as a special case of concurrent constraint (logic) programming
K. Kahn, Vijay A. Saraswat
September 1990 **ACM SIGPLAN Notices , Proceedings of the European conference on object-oriented programming on Object-oriented programming systems, languages, and applications OOPSLA/ECOOP '90**, Volume 25 Issue 10
Publisher: ACM Press
Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, citings, index terms

Saraswat recently introduced the framework of concurrent constraint programming [14]. The essence of the framework is that computations consist of concurrent agents interacting by communicating constraints. Several concurrent constraint programming languages have been defined. They differ in the kinds of constraints that can be used as well as the kinds of operations on constraints which are available. In this paper we introduce a very simple concurrent constraint language we call Lucy, des ...

11 Annotated bibliography of the proceedings of the annual simulation symposium (1968-1991)
Ross A. Gagliano, Martin D. Fraser
April 1992 **Proceedings of the 25th annual symposium on Simulation**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.45 MB) Additional Information: full citation, references, index terms

12 Multiple underlying systems: translating user requests into programs to produce answers
Robert J. Bobrow, Philip Resnik, Ralph M. Weischedel
June 1990 **Proceedings of the 28th annual meeting on Association for Computational Linguistics**
Publisher: Association for Computational Linguistics
Full text available: pdf(375.29 KB) Publisher Site Additional Information: full citation, abstract, references, citings

A user may typically need to combine the strengths of more than one system in order to perform a task. In this paper, we describe a component of the Janus natural language interface that translates intensional logic expressions representing the meaning of a request into executable code for each application program, chooses which combination of application systems to use, and designs the transfer of data among them in order to provide an answer. The complete Janus natural language system has been ...

13 A transition analysis of an operational system from ADA83 to ADA95

Kenneth N. Warner, Alicia S. Slaughter
November 1995 **Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solutions for a changing complex world**
Publisher: ACM Press
Full text available: pdf(483.21 KB) Additional Information: full citation, references

14 JANUS: integrating hypertext with a knowledge-based design environment

G. Fischer, R. McCall, A. Morch
November 1989 **Proceedings of the second annual ACM conference on Hypertext**
Publisher: ACM Press
Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, citings, index terms

Hypertext systems and other complex information stores offer little or no guidance in helping users find information useful for activities they are currently engaged in. Most users are not interested in exploring hypertext information spaces per se but rather in obtaining information to solve problems or accomplish tasks. As a step towards this we have developed the JANUS design environment. JANUS allows designers to construct artifacts in the domain of architectural design ...

15 JANUS: basic concepts and sample dialog

Anders Morch, Andreas Girgensohn
March 1991 **Proceedings of the SIGCHI conference on Human factors in computing systems: Reaching through technology**
Publisher: ACM Press
Full text available: pdf(188.98 KB) Additional Information: full citation, references, index terms

16 Call forwarding: a simple interprocedural optimization technique for dynamically typed languages

Koen De Bosschere, Saumya Debray, David Gudeman, Sampath Kannan
February 1994 **Proceedings of the 21st ACM SIGPLAN-SIGACT symposium on Principles of programming languages**
Publisher: ACM Press
Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper discusses call forwarding, a simple interprocedural optimization technique for dynamically typed languages. The basic idea behind the optimization is straightforward: find an ordering for the "entry actions" of a procedure, and generate multiple entry points for the procedure, so as to maximize the savings realized from different call sites bypassing different sets of entry actions. We show that the problem of computing optimal solutions to arbitrary ...

17 Separating concurrent languages with categories of language embeddings

Ehud Shapiro
January 1991 **Proceedings of the twenty-third annual ACM symposium on Theory of computing**
Publisher: ACM Press
Full text available: pdf(1.22 MB) Additional Information: full citation, references, citings, index terms, review

18 Combat simulations in U.S. Army training and testing
Lawrence J. Dacunto, David J. Prybyla
November 1996 **Proceedings of the 28th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(680.13 KB) Additional Information: full citation

19 The integrated unit simulation system: quantifying individual and small unit mission effectiveness on the battlefield of the future
Victor E. Middleton, John O'Keefe
December 1993 **Proceedings of the 25th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(475.63 KB) Additional Information: full citation, references

20 PLEXUS: a hypermedia architecture for large-scale digital libraries
Robert M. Akscyn, Donald L. McCracken
November 1993 **Proceedings of the 11th annual international conference on Systems documentation**
Publisher: ACM Press
Full text available: pdf(857.01 KB) Additional Information: full citation, references, citings, index terms

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H Ritter, T Kohonen - Biological Cybernetics, 1989 - springerlink.com
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T Honkela - NASA, 1997 - darkstar.spinfo.uni-koeln.de
Page 1. **SELF-ORGANIZING** MAPS IN ... ESPOO 1997 Page 2. Abstract Kohonen's **Self-Organizing** Map (SOM) is one of the most popular articial neural network algorithms. ...
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J Walter, H Ritter - Neurocomputing, 1996 - techfak.uni-bielefeld.de
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D Merkl - Proceedings of ICNN, 1995 - ieeexplore.ieee.org
... of library structuring is commonly performed by using either **semantic networks** [121 or ... and [III where we describe the application of **self-organizing** maps with ...
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X Lin - 1993 - portal.acm.org
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... based on predicate logic or **semantic networks**, appear not to be sucient to tackle the phenomena mentioned above. As an alternative, the **self-organizing** map (SOM ...
Cited by 7 - View as HTML - Web Search - nucleus.hut.fi - cis.hut.fi - portal.acm.org - all 5 versions »

A **Self-organizing** Adaptive Fuzzy Controller
CH Lee, SD Wang - Fuzzy Sets and Systems, 1996 - portal.acm.org
... A **self-organizing** adaptive fuzzy controller. ... I.2 ARTIFICIAL INTELLIGENCE I.2.4 Knowledge Representation Formalisms and Methods Subjects: **Semantic networks**. ...
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[PS] **Self-organizing** recognition and classification of relational structures
BJ Jain, F Wysotzki - Proceedings of the 24th Annual Meeting of the Cognitive ..., 2002 - ki.cs.tu-berlin.de
... with a set of predened prototypes in a **self-organizing** manner , ie ... of relational structures like molecular structures, data structures, or **semantic networks**. ...
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Self-organizing systems research in the social sciences: Reconciling the metaphors and the models
NS Contractor - Management Communication Quarterly, 1999 - tec.spcomm.uiuc.edu
... However, due to its meta-theoretical status, **self-organizing** systems theory ... theory of action), (e) cognitive theories (**semantic networks**, knowledge structures ...
Cited by 9 - View as HTML - Web Search - tec.spcomm.uiuc.edu

Self-organizing maps and software reuse
D Merkl - Computational Intelligence in Software Engineering, World ..., 1998 - rise.tuwien.ac.at
... model, ie a neural network model based on the **self-organizing** map with ... by means of a knowledge-representation formalism as, for instance, **semantic networks**. ...
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Handling Complexity with Self-Organizing Fractial Semantic Networks
J Klenk, G Binnig, G Schmidt - Emergence, 2000 - dx.doi.org
... We further subdivide nodes into information units, attribute units, and process units or **Janus units**. In our model we use the metaphor of a Janus (pl. ...
Web Search - leaonline.com - leaonline.com

Research Report
J Klenk, G Binnig, G Schmidt - domino.watson.ibm.com
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Y John - Journal of Cancer Research and Therapeutics, 2005 - cancerjournal.net
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1. **JLINK-Janus Fast Movers**
Caldwell, W.J.; Wood, R.; Pate, M.C.;
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